PackardBell Viseo 193ws

Service Guide

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Service Guide Version and Revision

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen.
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Remind you to do specific actions relevant to the accomplishment of procedures.

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Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office may have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

Warning: (For FCC Certified Models)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.
   As ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Warning:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerous high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

Precautions

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- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, uses a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

Special Notes On LCD Monitors

The following symptoms are normal with LCD monitor and do not indicate a problem.

Notes

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Introduction

Scope

This short specification describes the electrical, optical and functional performance requirements for a 48cm(19") TFT LCD color monitor with VGA&DVI compatible interface.

Description

The LCD monitor is designed with the latest LCD technology to provide a performance oriented product with no radiation. This will alleviate the growing health concerns. It is also a space saving design, allowing more desktop space, and comparing to the traditional CRT monitor, it consumes less power and gets less weight in addition MTBF target is 50k hours or more.

Chart of Viseo 193ws

Panel	M190PW01 V00 SZ AUO
Signal Interface	D-Sub 15pin;DVI 24pin
Sync Type	Separate / Compatible
Color Temp User Adjust	Support
DDC	DDC2B
Speaker	Yes
Headphone Jack	Yes
Microphone Jack	No
USB Hub	Not support
Tilt / Swivel	No / No

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Electrical Requirements

Standard Test Conditions

All tests shall be performed under the following conditions, unless otherwise specified.

Ambient light	Dark room (< 1 cd/m^2)
Viewing distance	40 cm for LCD performance, 20 cm for LCD failures
Warm up time	＞30 minutes
Analog Input signal	700 mVss
Control temperature	6500° K
User brightness control	The value under user mode
User contrast control	Set to factory preset value, which allows that the brightest two of 32 linear distributed gray-scales (0～ 700mv) can be distinguished.
Picture position and size	Factory preset value
Viewing angle	90° H and V
AC Supply voltage	230V± 5%, 50±3Hz;110V±5%,60±3Hz
Ambient temperature	20+5℃
Humidity	65% ± 20%
Display mode	1440 x 900, 60 Hz, all white
e-color mode	Set to “User” mode

Measurement systems

The units of measure stated in this document are listed below:

1 gamma = 1 nano tesla

1 tesla = 10,000 gauss

cm = in x 2.54

Lb = kg x 2.2

Degrees F = [°C x 1.8] + 32

Degrees C = [°F - 32]/1.8

u' = 4x/(-2x + 12y + 3)

v' = 9y/(-2x + 12y + 3)

x = (27u'/4)/[(9u'/2) - 12v' + 9]

y = (3v')/[(9u'/2) - 12v' + 9]

nits = cd/(m2) = Ft-L x 3.426

lux = foot-candle x 10.76

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LCD Monitor General Specification

LCD Panel	Driving system	TFT Color LCD
	Active Display Area	255.15 (W) × 408.24(H)
	Pixel pitch	0.2835(H) x 0.2835(W)
	Contrast Ratio	1000 : 1
	Response time	5ms
	Luminance of White	300cd/㎡ (Typ)
Input	Separate Sync.	H/V TTL
	H-Frequency	30kHz – 80kHz
	V-Frequency	55-75Hz
Viewing angle	(H)90° (V) 90°(Type)	
Display Colors	16.7M	
Display mode	1440 x 900 @60Hz	
EPA ENERGY STAR®	ON Mode	< 45W
	OFF Mode	<2W
Contrast control	Set to factory preset value which allows that the brightest two of 32 linear distributed gray-scales (0～ 700mv) can be distinguished.	
Power Source	100 V ~ 240 V，50 ± 3Hz，60 ± 3Hz	
Environmental Considerations	Operating Temp: 5° to 35°C Storage Temp: -30° to 65°C Operating Humidity: 0% to 90% Storage Humidity: 0% to 90%	
Peak surge current	< 55A peak at 240 VAC and cold starting	
Power line surge	No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second	

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LCD Panel Specification

This specification applies to the 19 inch-wide Color TFT-LCD Module M190PW01.

The display supports the WXGA+ (1440(H) x 900(V)) screen format and 16.7M colors. All input signals are 2 Channel LVDS interface compatible.

This module does not contain an inverter card for backlight.

General Specifications

Items	Unit	Specifications
Active Area	[mm]	408.24 (H) x 255.15(V)
Pixels H x V		1440x3(RGB) x 900
Pixel Pitch	[mm]	0.2835x 0.2835
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN Mode,Normally White
White Luminance	[cd/m^2]	300 cd/m2 @ 6.5mA (Typ)
Contrast Ratio		800
Optical ResponseTime	[msec]	5 (Typ, on/off)
Nominal Input Voltage VDD	[Volt]	+5.0 (Typ)
Power Consumption (VDD line + CCFL line)	[Watt]	24.04(Typ)
Weight	[Grams]	2500 (Typ)
Physical Size (H x V x D)	[mm]	428.0(W) x 278.0(H) x 18.5(D) (Typ)
Electrical Interface		Dual Channel LVDS
Surface Treatment		Anti-glare type, Hardness 3H
Support Colors		16.7M colors (RGB 6-bits+HiFRC)
RoHS Compliance		RoHS Compliance

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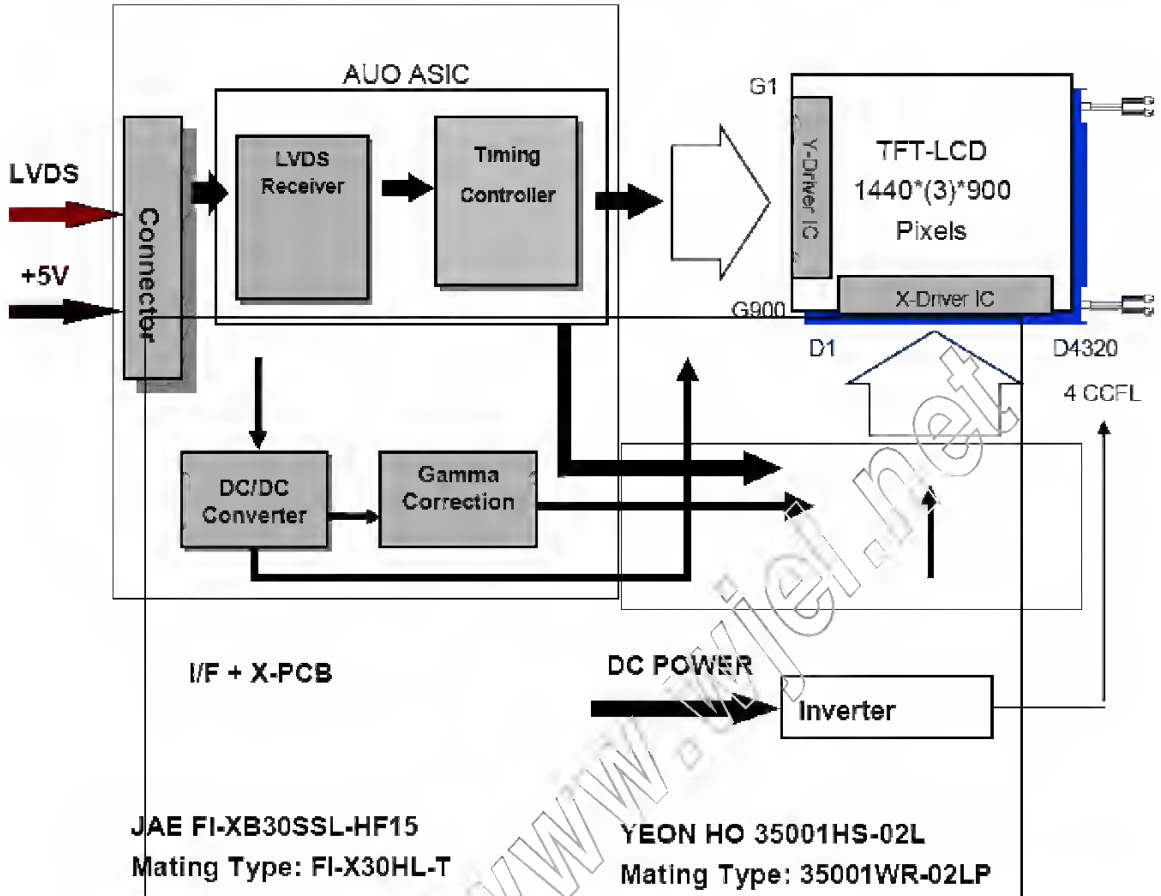
Function Block Diagram

The following diagram shows the functional block of the 19.0 inches wide Color TFT-LCD Module



Electrical Characteristics

Input power specifications are as follows:

Symble	Parameter	Min.	Typ.	Max.	Unit	Condition
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	
IDD	Input Current	-	0.8	1.2	[A]	VDD= 5.0V, All Black Pattern At 75Hz
PDD	VDD Power	-	4.0	6.0	[Watt]	VDD= 5.0V, All Black Pattern At 75Hz , Note 1
IRush	Inrush Current	-	-	3	[A]	Note 2

Each signal characteristics are as follows;

Symbol	Parameter	Min	Typ	Max	Units	Condition	
VTH	Differential Input High Threshold	-	-	100	[mV]	VICM = 1.2V	*Note*
VTL	Differential Input Low Threshold	-100	-	-	[mV]	VICM = 1.2V	*Note*
| VID |	Input Differential Voltage	100	400	600	[mV]		*Note*
VICM	Differential Input Common Mode Voltage	1.0	1.2	1.5	[V]	VTH/VTL = ± 100mV	*Note*

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Optical Specifications

The optical characteristics are measured under stable conditions at 25℃ (Room Temperature):

Item	Unit	Conditions	Min.	Typ.	Max.	Note
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	75 75	80 80	-	1
		Vertical (Up) CR = 10 (Down)	75 75	80 80	-	
Luminance Uniformity	[%]	9 Points	75	80	-	2, 3
Optical Response Time	[msec]	Rising	-	3.6	5.7	4, 6
		Falling	-	1.4	2.3	
		Rising + Falling	-	5	8	
Color / Chromaticity Coordinates (CIE 1931)		Red x	0.620	0.650	0.680	4
		Red y	0.310	0.340	0.370	
		Green x	0.260	0.290	0.320	
		Green y	0.580	0.610	0.640	
		Blue x	0.120	0.150	0.180	
		Blue y	0.040	0.070	0.100	
		White x	0.283	0.313	0.343	
		White y	0.299	0.329	0.359	
White Luminance (At CCFL= 6.5mA)	[cd/m^2]		250	300	-	4
Contrast Ratio			600	800	-	4
Cross Talk (At 75Hz)	[%]		-	-	1.5	5
Flicker	[dB]		-	-	-20	7

Optical Equipment: BM-5A, BM-7, PR880, or equivalent

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Support Timing

MODE	MODE NAME	Resolution	H.FREQ	V.FREQ
1		640x480	31.469	59.941
2		640x480	37.861	72.809
3		640x480	37.5	75
4	MAC	640x480	35	66.66
5	VESA	720x400	31.469	70.087
6	SVGA	800x600	35.156	56.25
7		800x600	37.879	60.317
8		800x600	48.077	72.188
9		800x600	46.875	75
10	MAC	832x624	49.722	74.55
11	XGA	1024x768	48.363	60.004
12		1024x768	56.476	70.069
13		1024x768	60.023	75.029
14	MAC	1152x870	68.7	75
15	VESA	1152x864	67.5	75
16		1280x960	60	60
17	SXGA	1280x1024	63.981	60.02
18		1280x1024	79.976	75.025
19	VESA	1280x720	44.955	59.94
20		1280x768	47.776	59.87
21		1280x768	60.289	74.893
22	WXGA	1280x800	49.702	59.81
23	WXGA+	1440x900	55.935	59.887
24		1440x900	70.635	75

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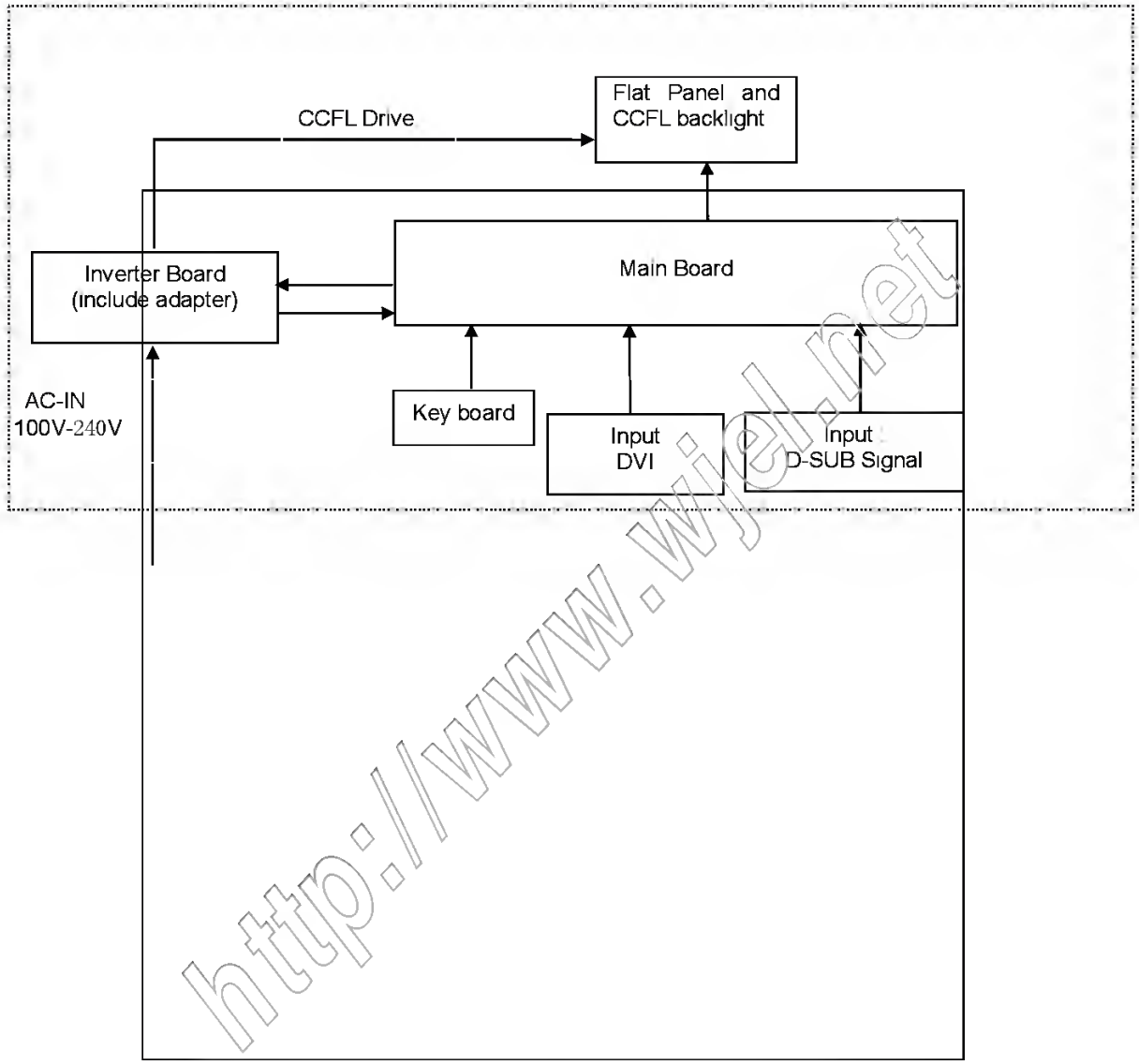
Monitor Block Diagram

The LCD MONITOR will contain a main board, a power board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



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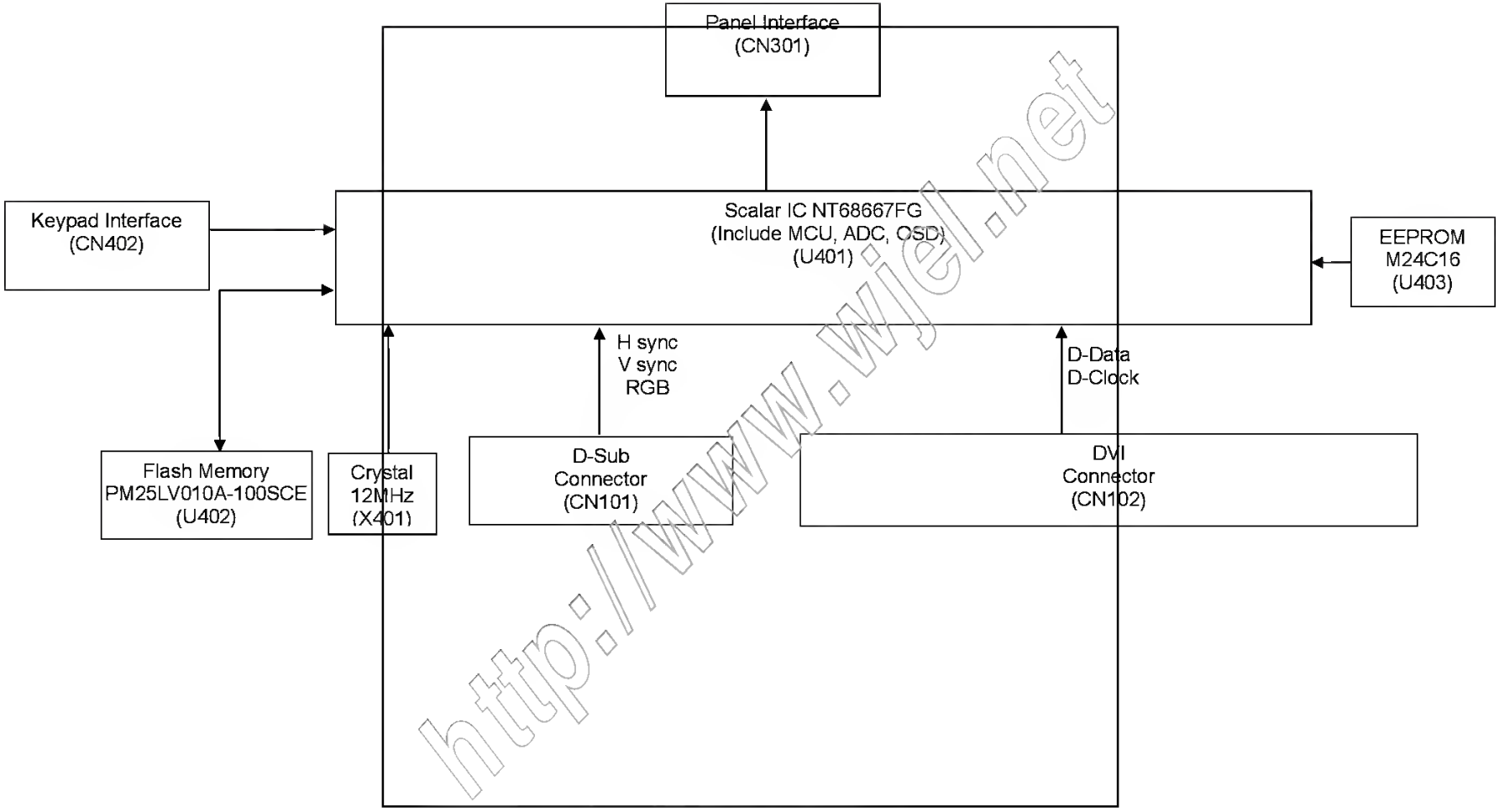
Main Board Diagram



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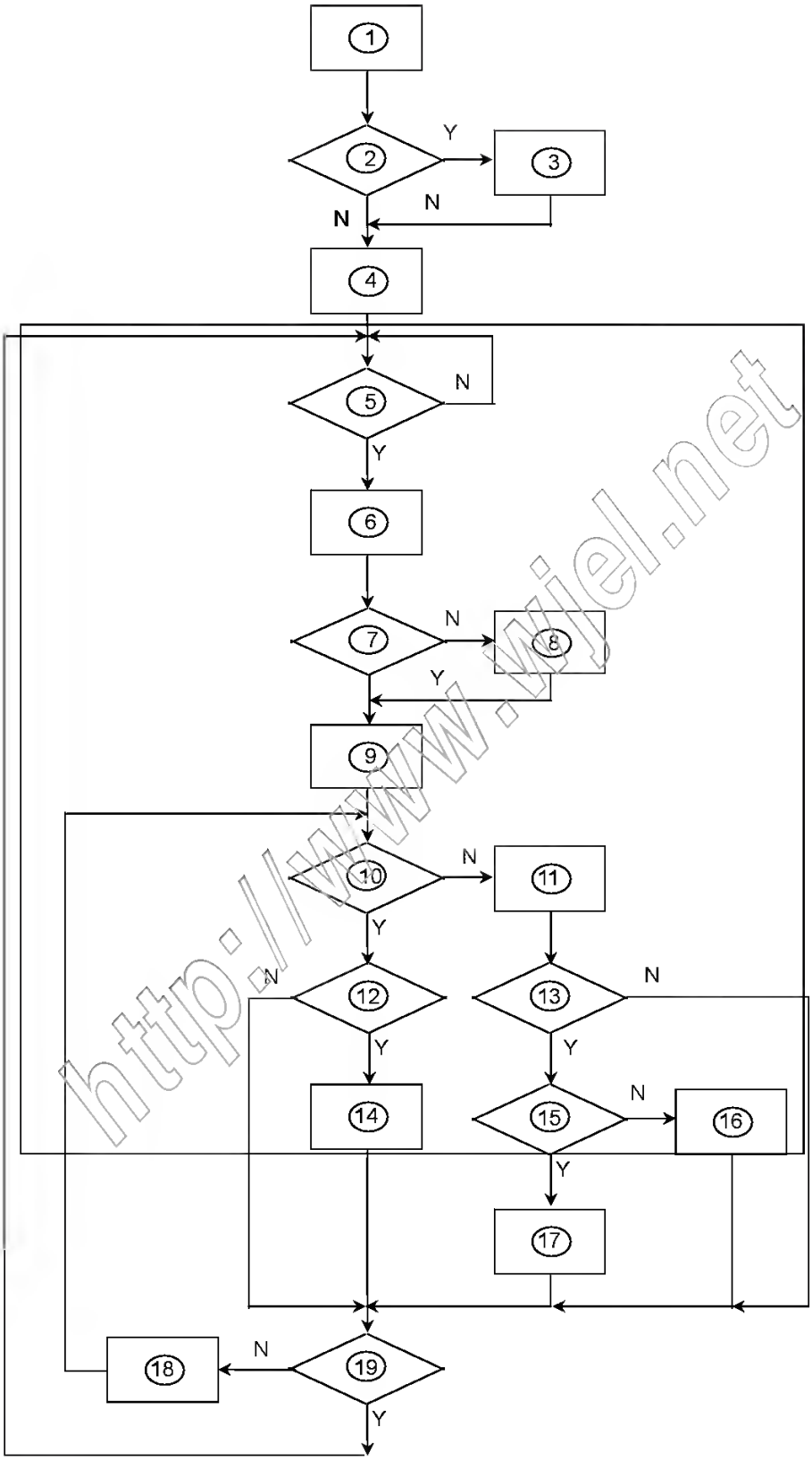
Software Flow Chart



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Remark:

1) MCU initializes
2) Is the EEPROM blank?
3) Program the EEPROM by default values
4) Get the PWM value of brightness from EEPROM
5) Is the power key pressed?
6) Clear all global flags
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode
9) Save the power key status into EEPROM Turn on the LED and set it to green color Scalar initializes
10) In standby mode?
11) Update the lifetime of back light
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode
18) Process the OSD display
19) Read the keyboard. Is the power key pressed?

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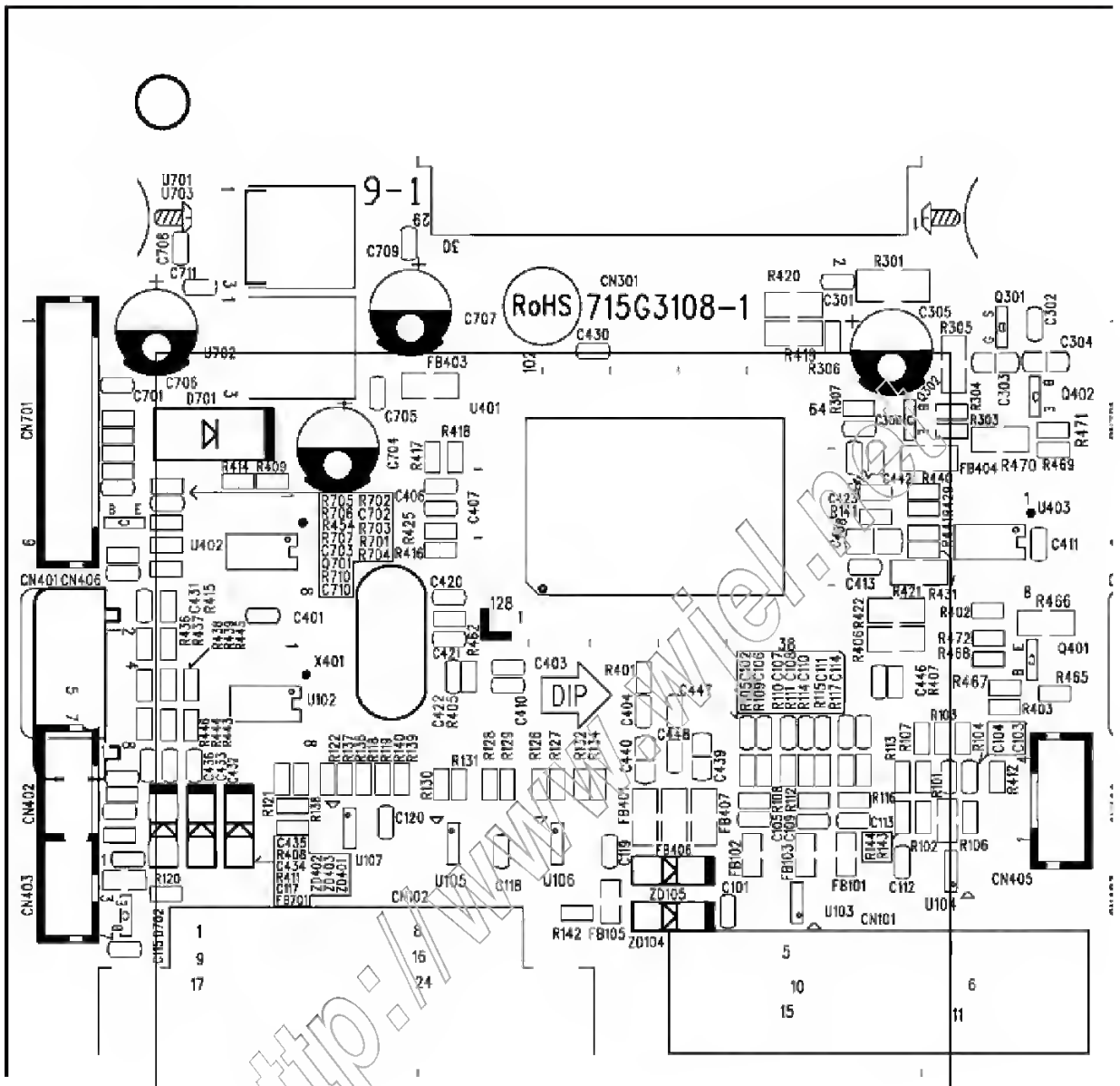
Main Board Layout



Symbol	Description	Symbol	Description
U401	IC NT68667FG QFP-128I	CN402	WAFER
U703	IC AP1117D33L-13 TO252-3L DIODES	CN701	WAFER 9P RIGHT ANELE PITCH
U103	IC AZC099-04S SOT23-6L	CN301	CONNECTOR
U104	IC AZC099-04S SOT23-6L	X401	CRYSTAL 12MHz HC-49US ARG6-120
U402	IC PM25LV010A-100SCE SOIC-8	CN101	D-SUB 15PIN
U403	M24C16-WMN6TP	CN102	DVI 24PIN CONN F

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Installation

To make it easier to connect the right plug into the right connector, Packard Bell has introduced Colour Coding. Each connector has its own icon with its own colour. Please make sure to always put a plug into a connector with corresponding icon and colour.

Make sure your system and LCD monitor power are **OFF**.

• If your computer is equipped with a **VGA** port, connect one of the VGA cable plugs to the VGA port on your computer's rear panel and the other to the connector on the rear of the monitor. According to PC99 requirements, the VGA plug and connector should be coloured **blue**. The VGA interface allows your computer to output analog signals.

The monitor is automatically configured to match the PC video settings with maximum SXGA resolution.

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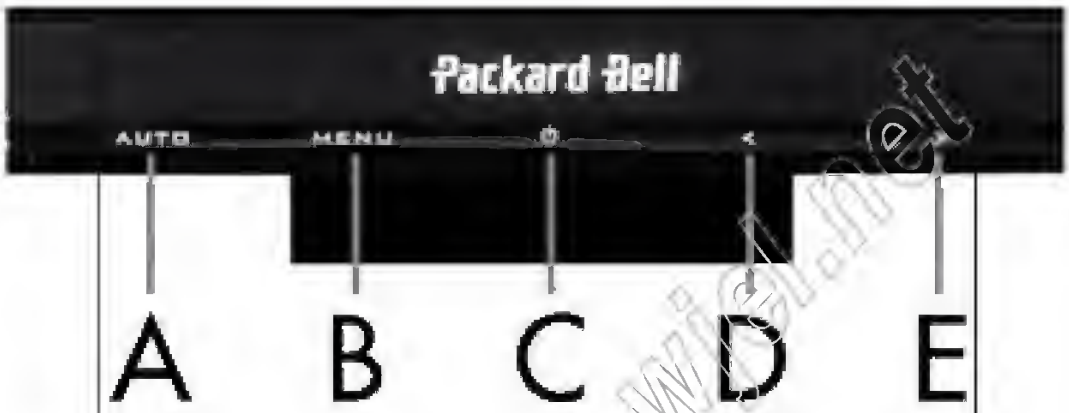
Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

External Controls



1. Press the AUTO Button (A) to perform an automatic optimized display setup.
2. Press the MENU Button (B) to access the OSD menu.
3. The POWER button (C) switches your monitor on and off. We recommend you switch the monitor on before switching the computer on.
4. Press the < button (D) or the > button (E) to choose the item you want to adjust. Use the MENU Button to choose the modification and then use the > and < buttons to increase or decrease the value of the selected control, press the MENU button again to set the new value.

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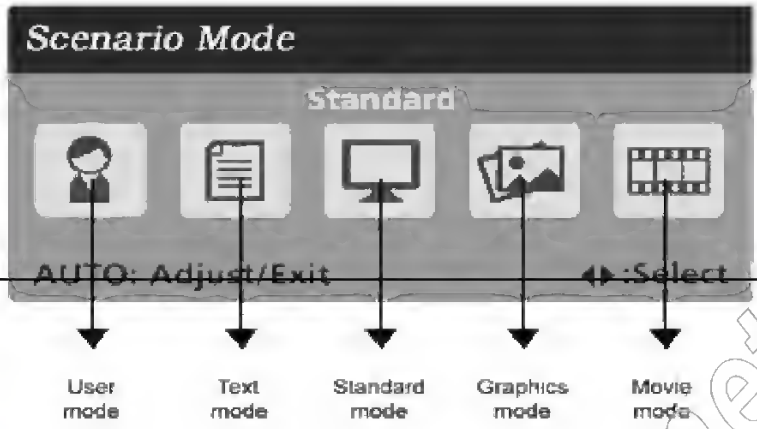
eColor Management (OSD)

Parkard Bell Scenario Mode: If select the "Scenario Mode" item, it will appear the Parkard Bell Scenario Mode

(NOTE In MENU OSD the "Scenario Mode" item doesn't have Multi-language selection, only English language)



Scenario Mode main menu, sub menu and description

Main Menu icon	Sub Menu icon	Sub Menu item	Description
	N/A	User mode	User defined. Settings can be fine-tuned to suit any situation
	N/A	Text mode	Optimal balance of brightness and contrast prevent eyestrain. The most comfortable way to read onscreen text
	N/A	Standard mode	Default Setting. Reflects native display capability
	N/A	Grahpic mode	Enhances colors and emphasize fine detail
	N/A	Movie mode	Displays scenes in clearest detail. Pictures and photographs appear in vibrant colors with sharp detail)

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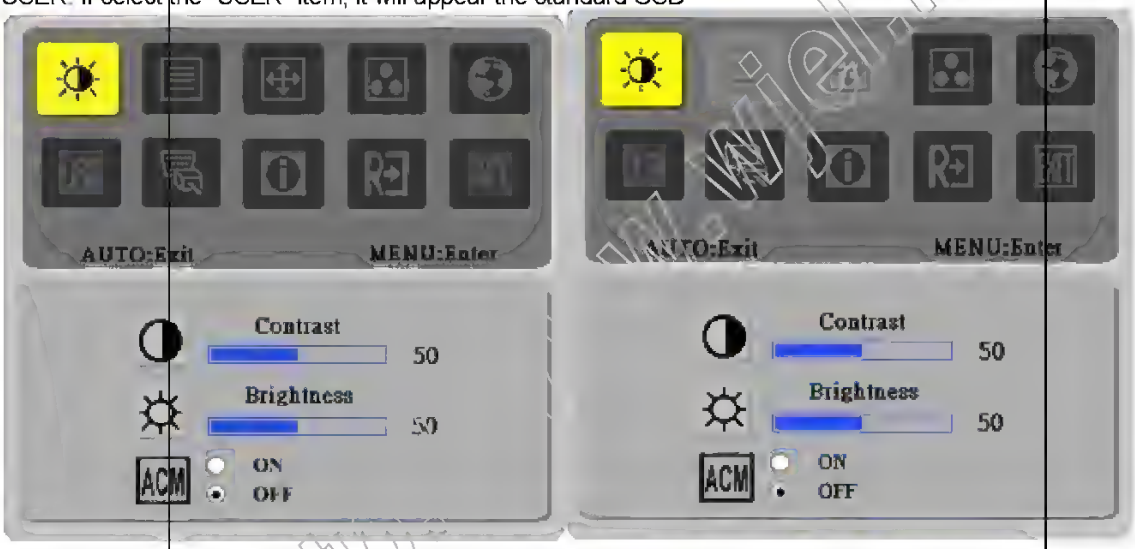
How to Adjust a Setting

When press "Menu" button from Front Bezel, user need to select which kind of function Menu need to open

USER: If select the "USER" item, it will appear the standard OSD



I. Only Analog Input Model

II. Dual Input Model

Adjusting the picture

USER main menu, sub menu and description

Main Menu icon	Sub Menu icon	Sub Menu item	Description
		Contrast	Adjust the contrast between the foreground and background of the screen image
		Brightness	Adjust the background brightness of the screen image
		ACM	ACM (Adaptive Contrast Management)A CM ON/OFF Switch, default "OFF"
		Focus	Adjust picture Focus (available in analog mode only)
		Clock	Adjust picture Clock (available in analog mode only)

		H. Position	Adjust the horizontal position (available in Analog mode only)
		V. Position	Adjust the vertical position (available in Analog mode only)
	N/A	Warm	Set the color temperature to warm white
	N/A	Cool	Set the color temperature to cool white
	R	User /Red	Adjusts Red/Green/Blue intensity
	G	User /Green	
	B	User /Blue	

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	N/A	English	Multi-language selection.
	N/A	繁體中文	
	N/A	Deutsch	
	N/A	Francais	
	N/A	Espanol	
	N/A	Italiano	
	N/A	简体中文	
	N/A	日本語	
	N/A	Suomi	EMEA version OSD only
	N/A	Nederlands	
	N/A	Pyccknn	

	H. Position		Adjust the horizontal position of the OSD.
	V. Position		Adjust the vertical position of the OSD.
	OSD Timeout		Adjust the OSD timeout.
	N/A	Analog	Select input signal from analog (D-Sub)
	N/A	Digital (only Dual-InputModel)	Select input signal from digital(DVI) (only Dual-Input Model)
	N/A	DDC/CI	Turn ON/OFF DDC/CI support
	N/A	Information	Show the resolution, H/V frequency and input port of current input timing.
	N/A	Reset	Clear each old status of Auto-configuration and set the color temperature to Warm
	N/A	Exit	Save user adjustment and OSD disappear

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How To Optimize The DOS-Mode

Plug And Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

This monitor will appear to be non-functional if there is no video input signal. In order for this monitor to operate properly, there must be a video input signal.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signals this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. Pressing a key on the keyboard, or clicking the mouse restores the display.

Using the Right Power Cord

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volts AC.

Supplied with units intended for connection to power outlet of personal computer. Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V, and CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.

Please note that power supply cord needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

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This chapter contains step-by-step procedures on how to disassemble the monitor for maintenance.

Disassembly Procedure

1. Remove the cover hinge as the following indicator (Fig 1)

Fig 1

2. Remove the screws as following indicate to release base stand (Fig 2)

Fig 2

http://www.wj.net

3. Remove the back cover and bezel. (Fig 3,4)

Fig 3

Fig 4

http://www.vi.nl.net

4. Remove the lamp connectors and remove the screws to remove the panel. Put attention to the LVDS cable (Fig 5,6)

Fig 5

Fig 6

http://www.vieuwer.com

5. Remove the screws to remove the main board and power board (Fig 7,8)

Fig 7

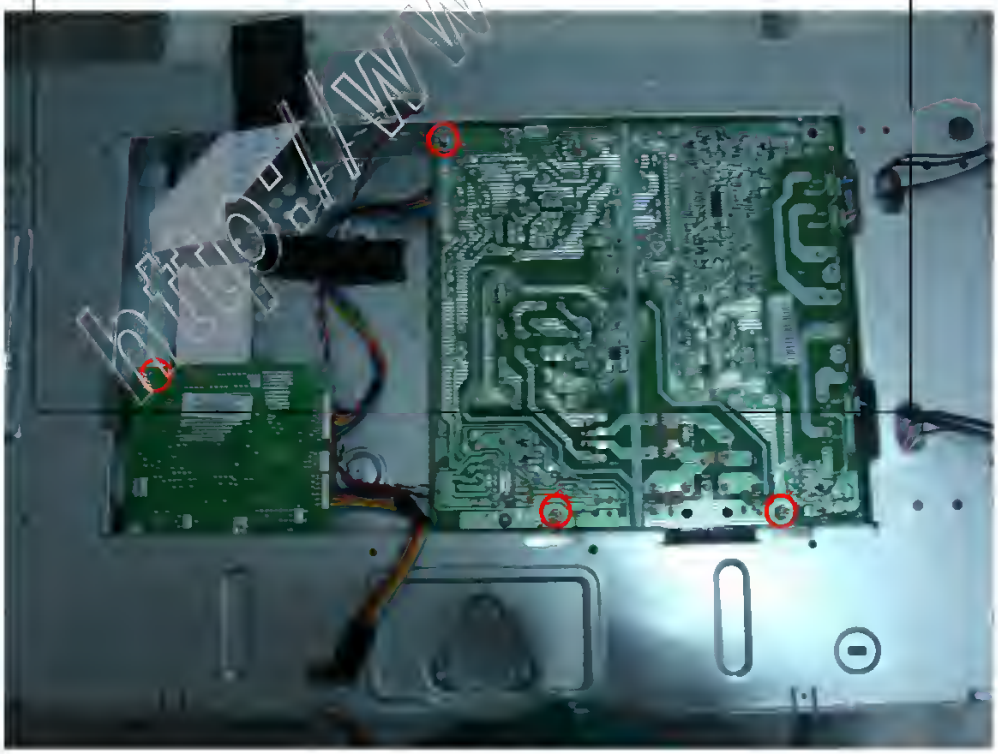


Fig 8

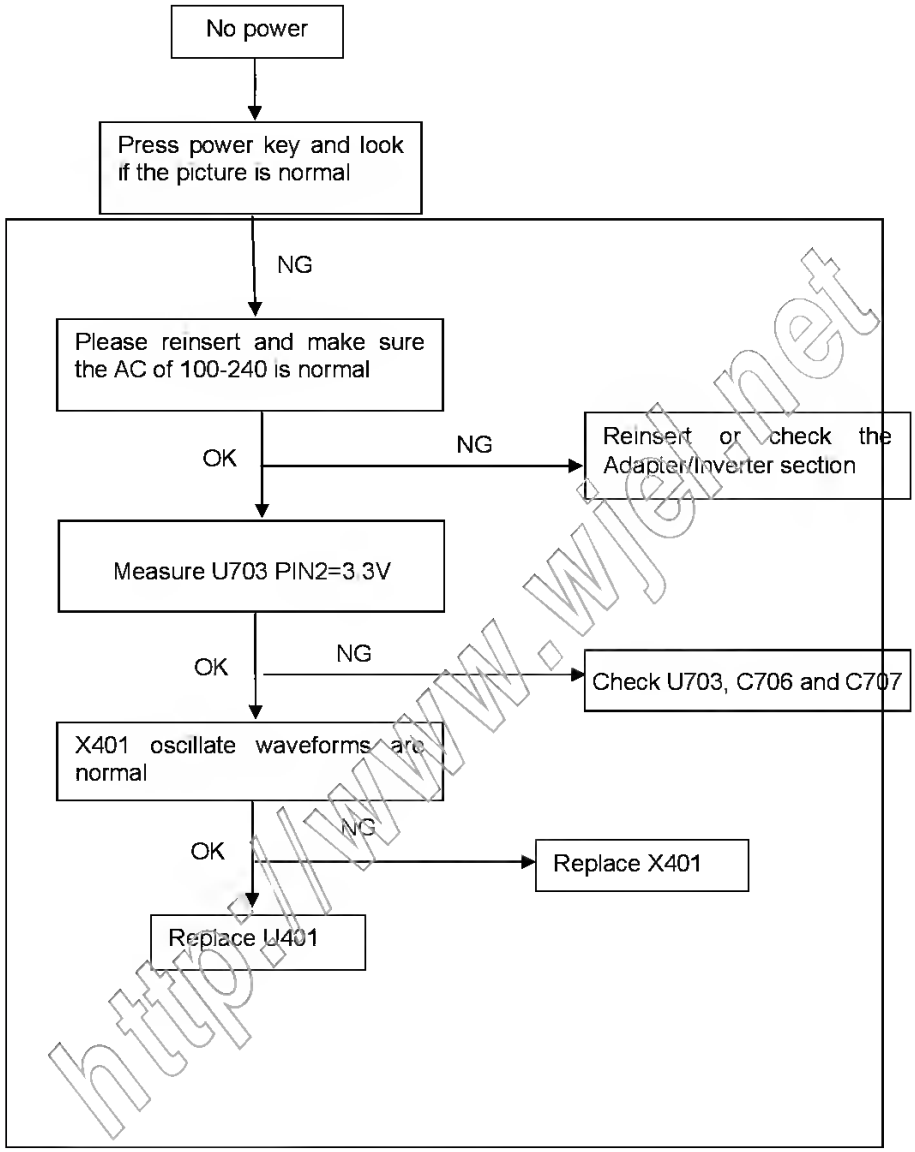
www.vjel.net

Fig 9

http://www.wj...net

This chapter provides troubleshooting information for the Viseo 193ws:

1. No Power



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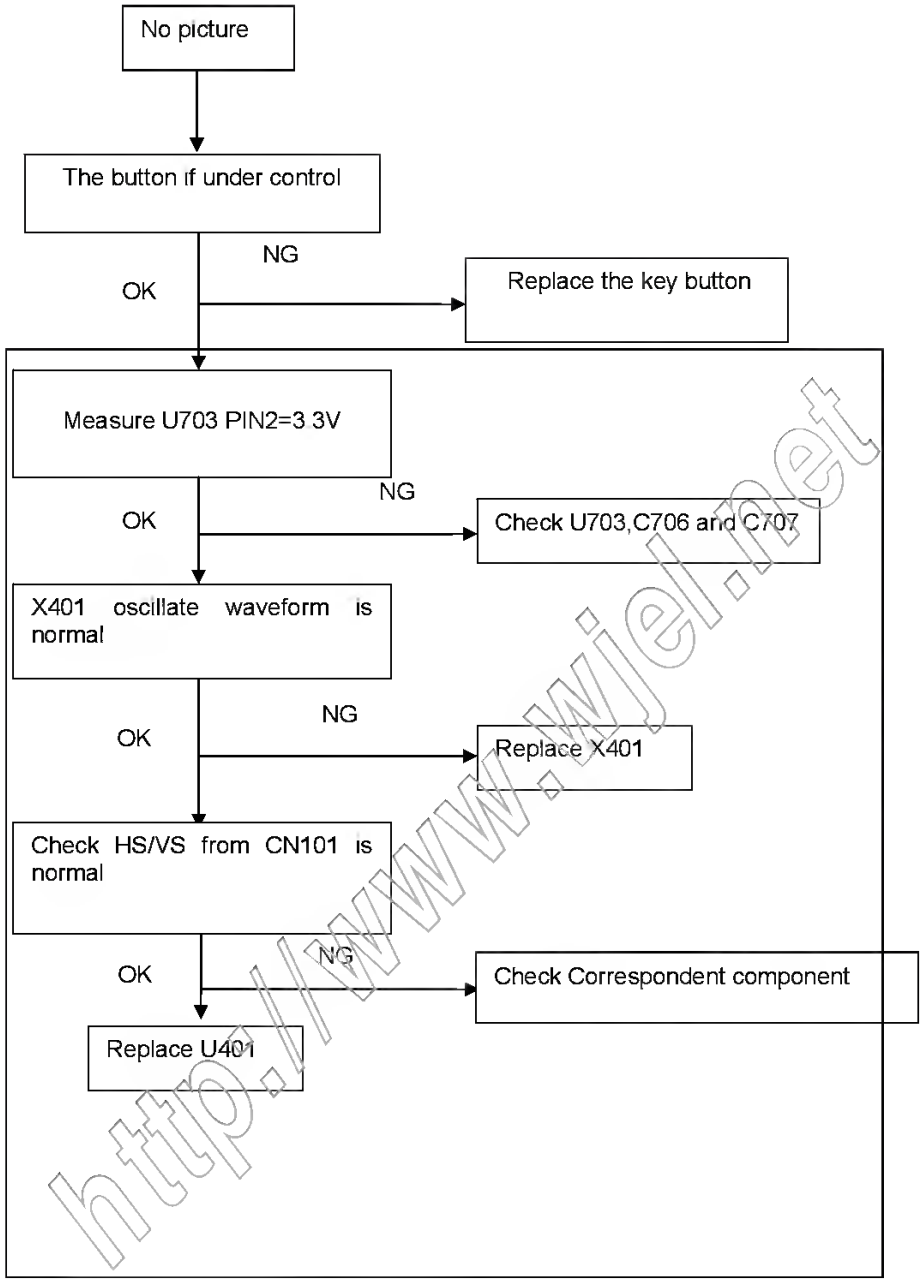
2. No Picture (LED is orange)



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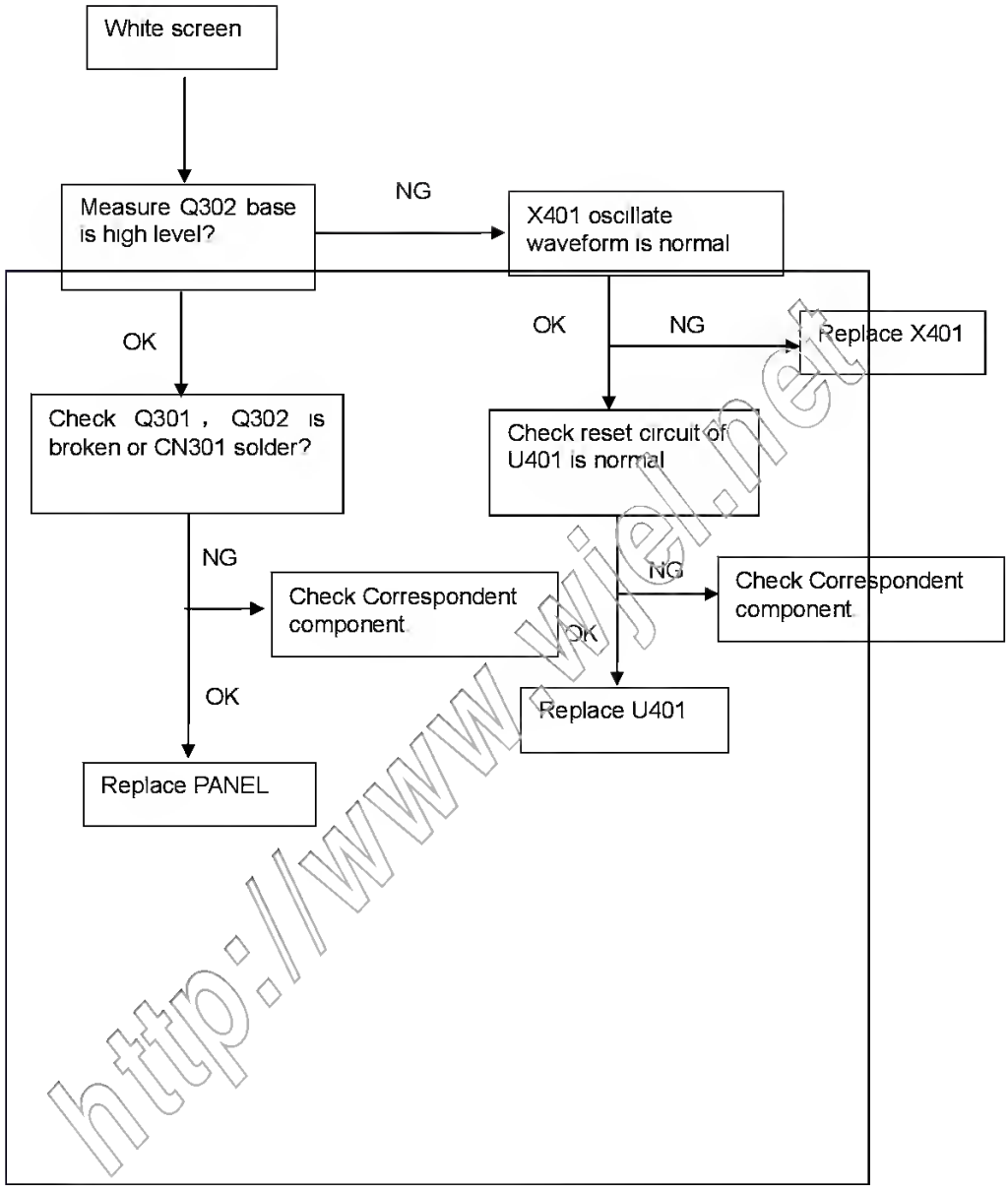
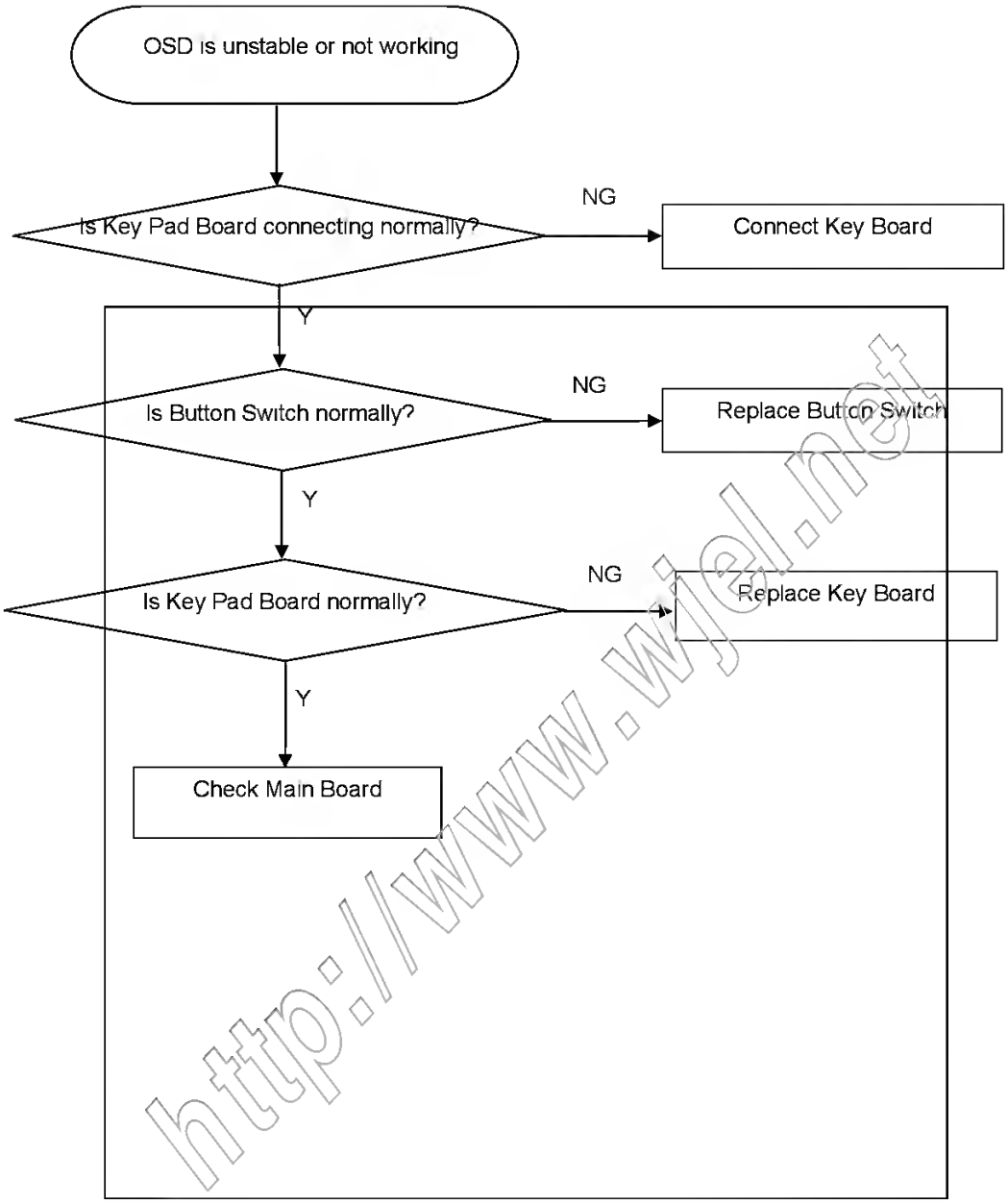
3. Panel Power Circuit



http://www.wjel.net

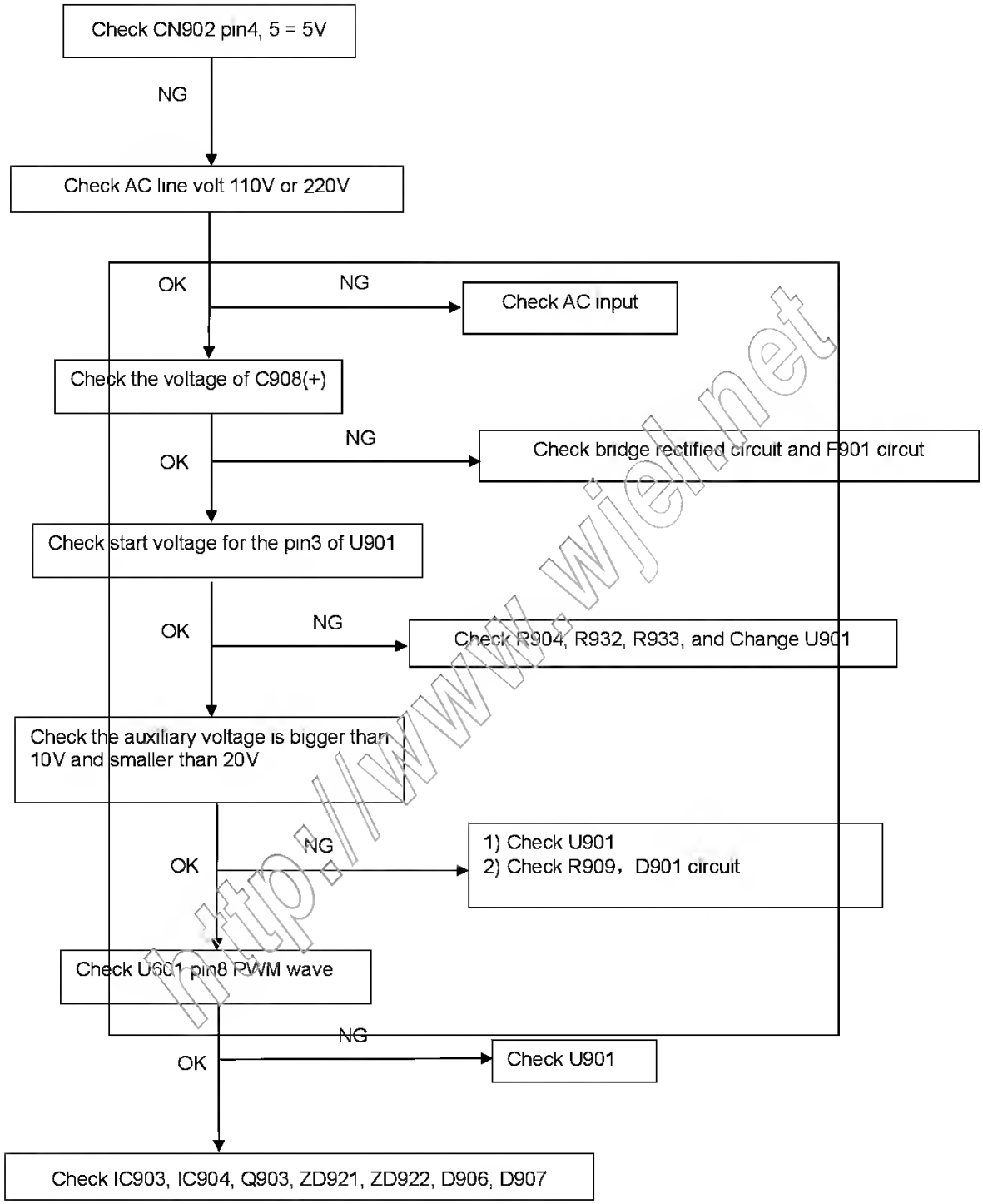
4. Key Board



http://www.wjel.net

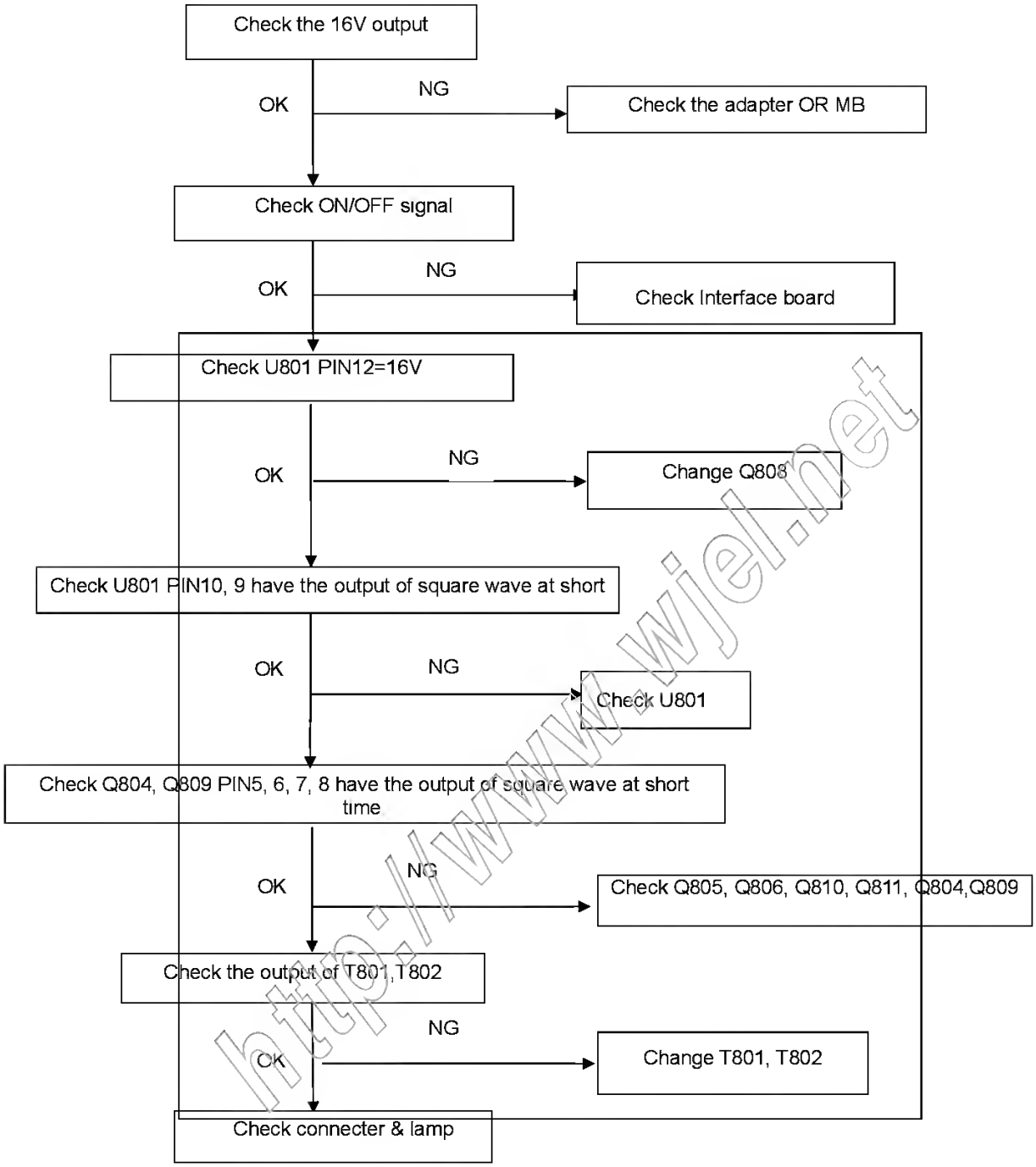
5. Power Board

1) No power



http://www.wjel.net

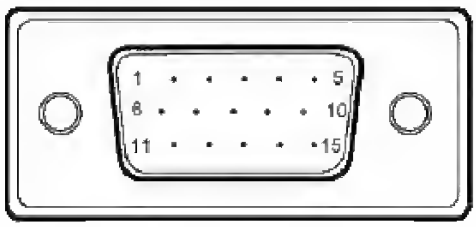
2.) No Backlight



http://www.wjel.net

The following figure shows the connector locations on the monitor:

D-SUB connector

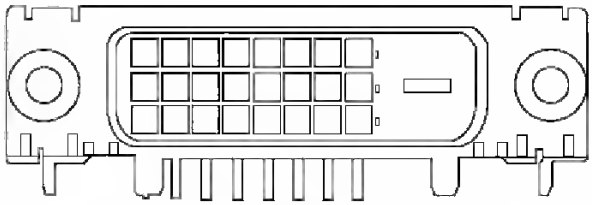


15-Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Logic Ground
3.	Blue	11.	Monitor Ground
4.	Monitor Ground	12.	DDC-Serial Data
5.	DDC-return	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		

http://www.vinfo.com.tw

DVI Connector



24-pin color display signal cable

PIN No.	Description	PIN No.	Description
1	TMDS data 2-	13	NC
2	TMDS data 2+	14	+5 V power
3	TMDS data 2/4 shield	15	GND (return for +5 V hsync.vsync)
4	NC	16	Hot-plug detection
5	NC	17	TMDS data 0-
6	DDC clock	18	TMDS data 0+
7	DDC data	19	TMDS data 0/5 shield
8	NC	20	NC
9	TMDS data 1-	21	NC
10	TMDS data 1+	22	TMDS clock shield
11	TMDS data 1/3 shield	23	TMDS clock+
12	NC	24	DDC TMDS clock-

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FRU (Field Replaceable Unit) List

Chapter 6

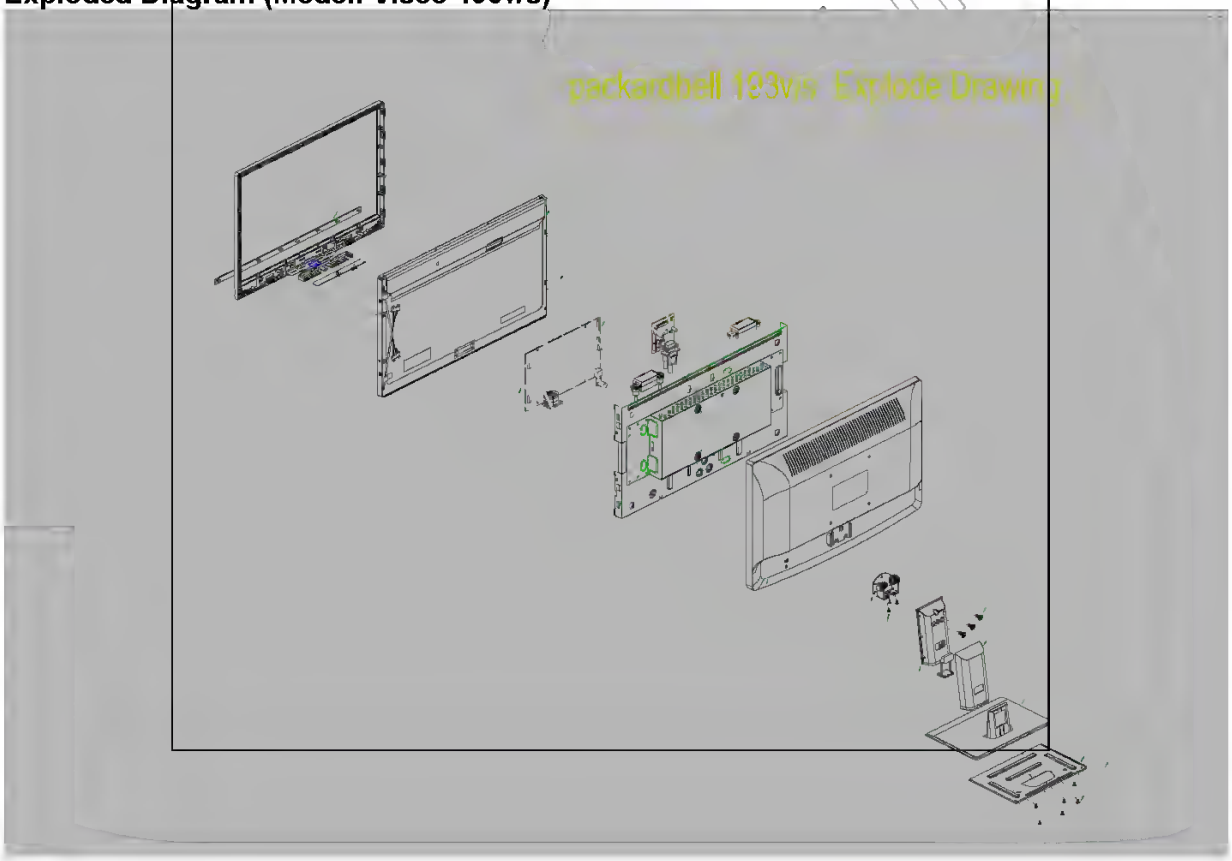
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Viseo 193ws

Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (http://aicsl.acer.com.tw/spl/). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

Exploded Diagram (Model: Viseo 193ws)



Item	Description	Item	Description
1	BEZEL L19WA-8GEMPAKA-2	13	REAR COVER L19W-8GEMPAKA-2
2	DECORATION STRIP	14	HINGE PACKARDBELL 193WS
3	POWER LENS	15	SCREW(M4*10)
4	KEY PAD	16	SCREW
5	KEY BOARD	17	STAND
6	PANEL	18	RELEASE BUTTON
7	POWER BOARD	19	STAND COVER
8	SCALER BOARD	20	BASE
9	SPEAKER	21	BASE BRACKET PACKARDBELL 193WS
10	SCREW	22	FOOT
11	SCREW,42-D020523	23	SCREW (T3X6)
12	MAIN FRAME WITH DVI E191W		

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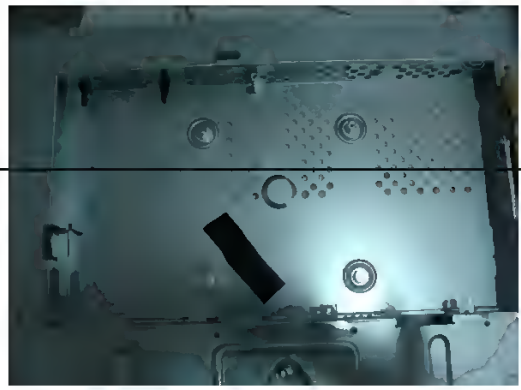
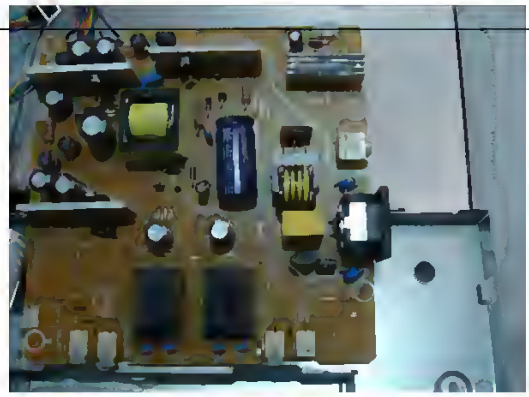
Part List

Above picture show the description of the following component

Item	Picture	Description
1		Main Frame
2		Panel
3		Power Board

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4		Main Board
5		Key Board

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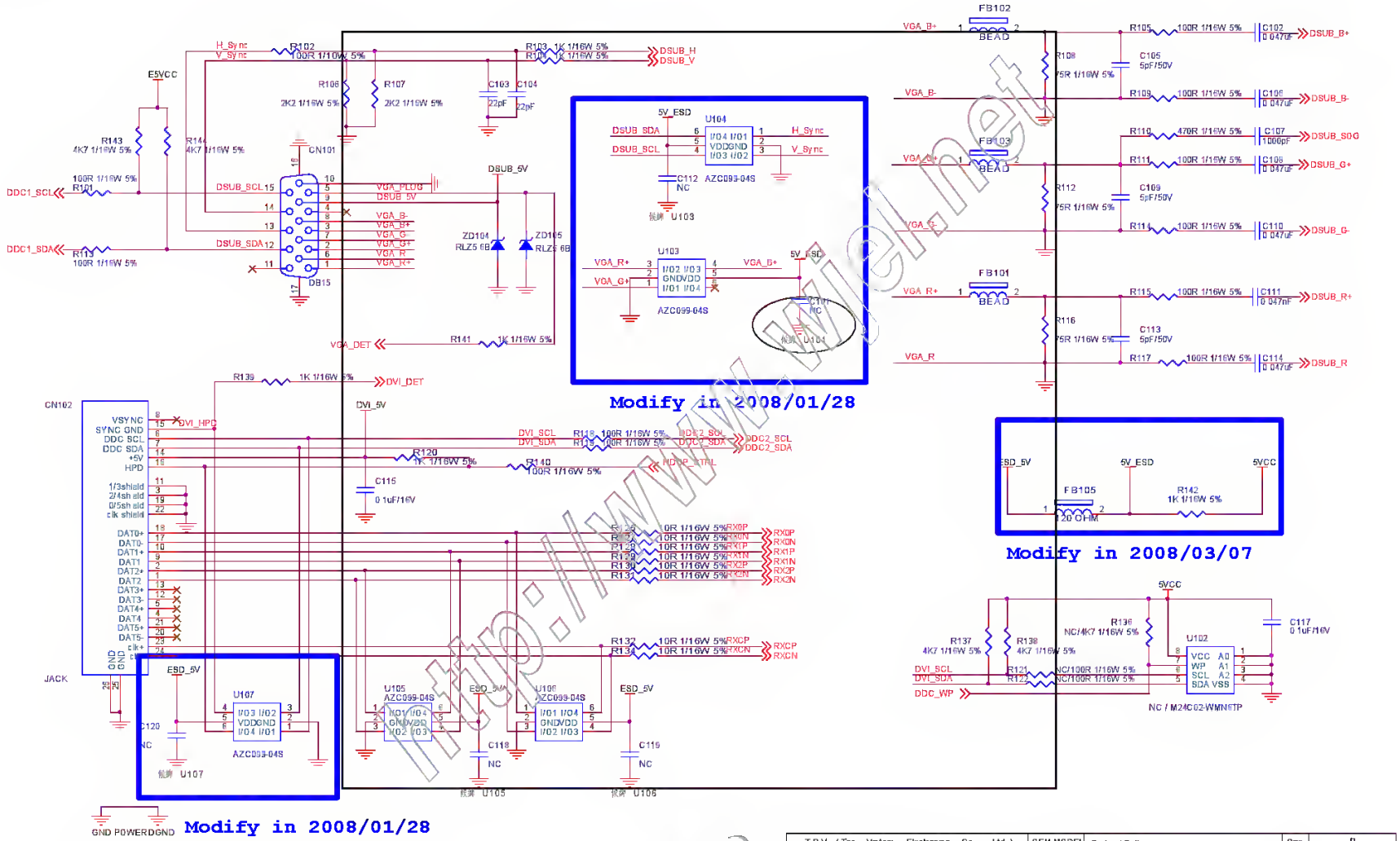
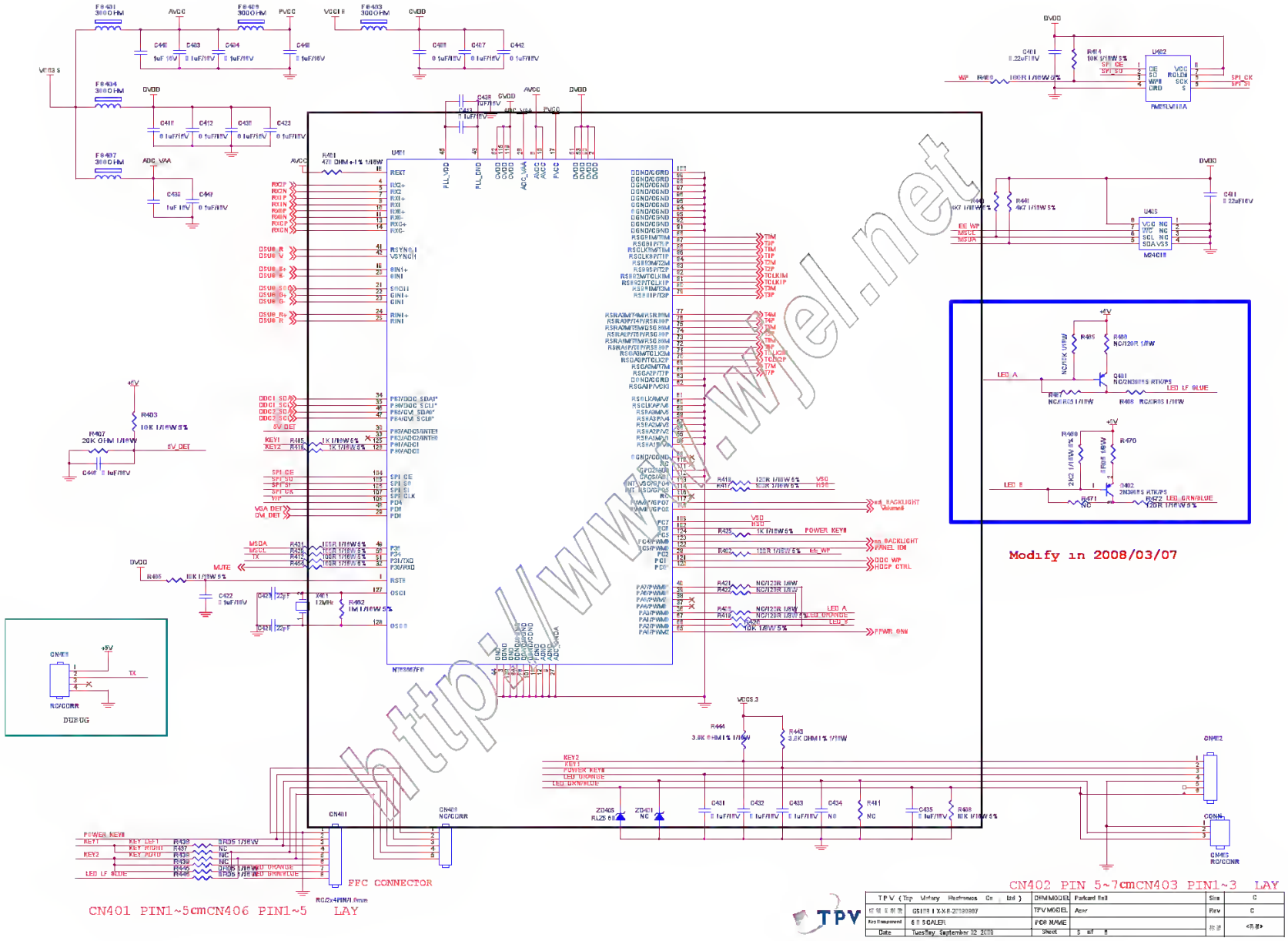
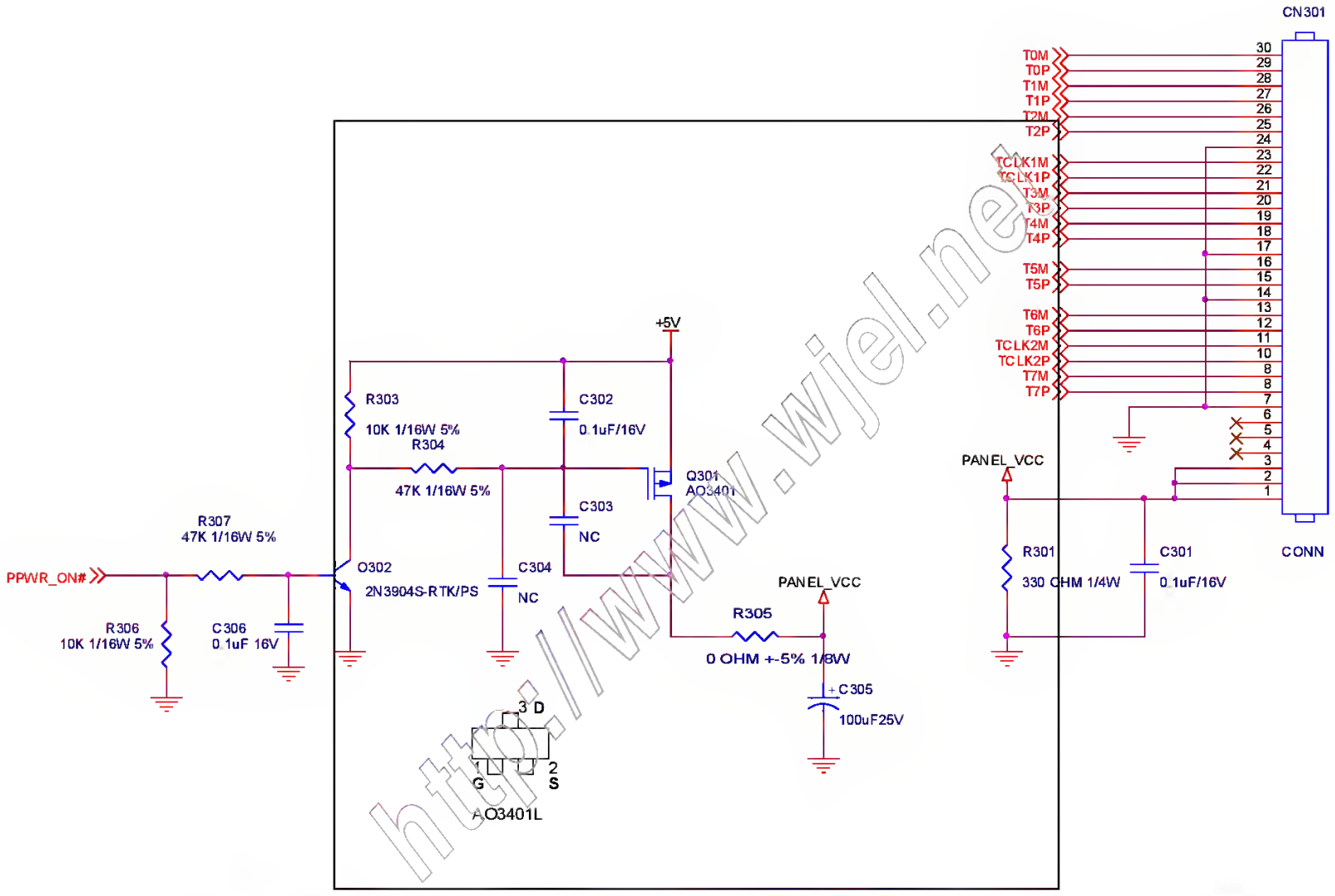
Main Board



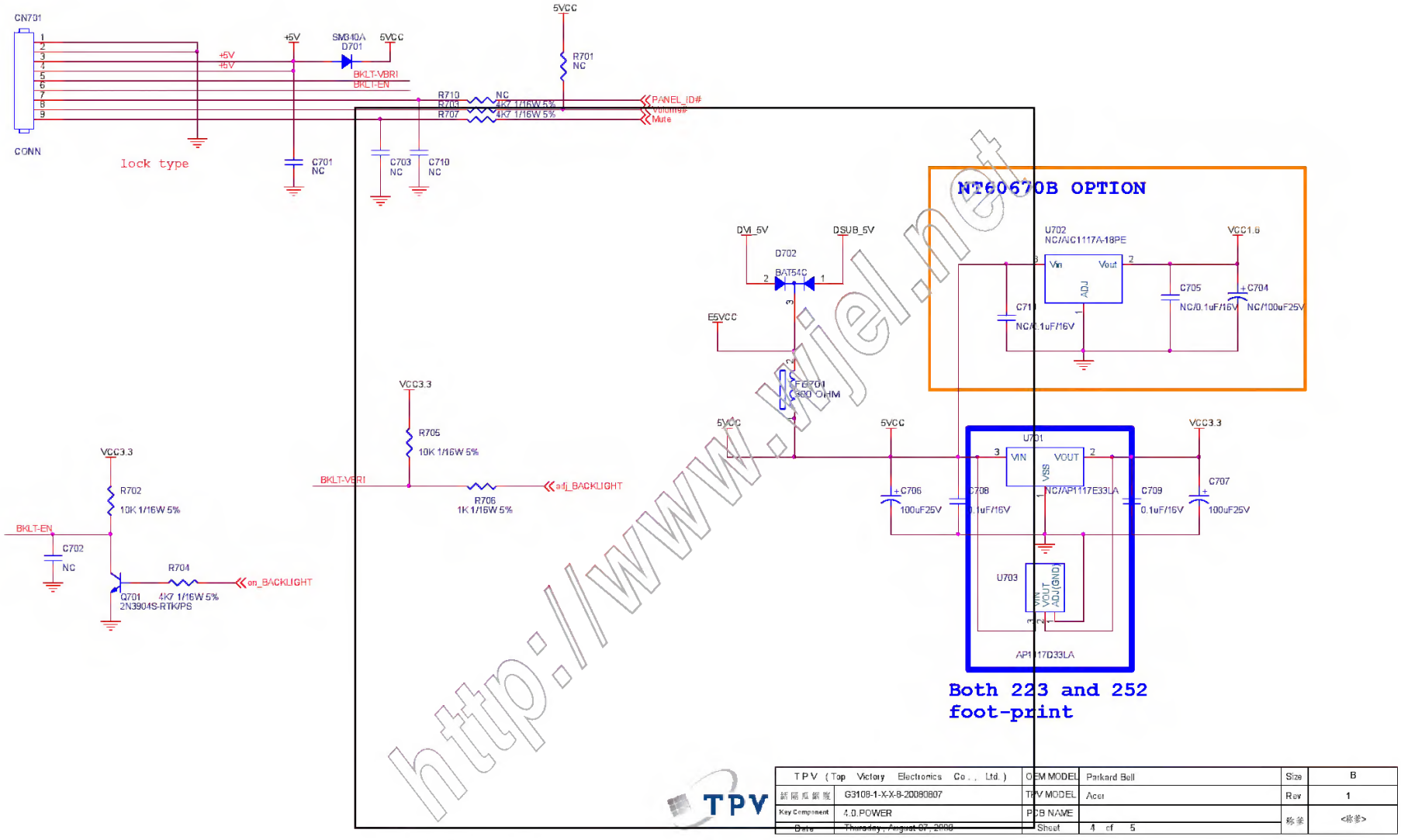
TPV (Top Victory Electronics Co Ltd)		OEM MODEL	Parkard Bell	Size	B
版面代號版	G3108-1 X-X-8-20080807	TPV MODEL	Acer	Rev	1
Key Component	2.0 INPUT	PCB NAME		称量	<称量>
Date	Thursday August 07 2008	Sheet	2 of 5		


Modify in 2008/03/07
CN401 PIN1~5cmCN406 PIN1~5 LAY
CN402 PIN 5~7cmCN403 PIN1~3 LAY
FFC CONNECTOR
DEBUG
TPV
http://www.wjel.net



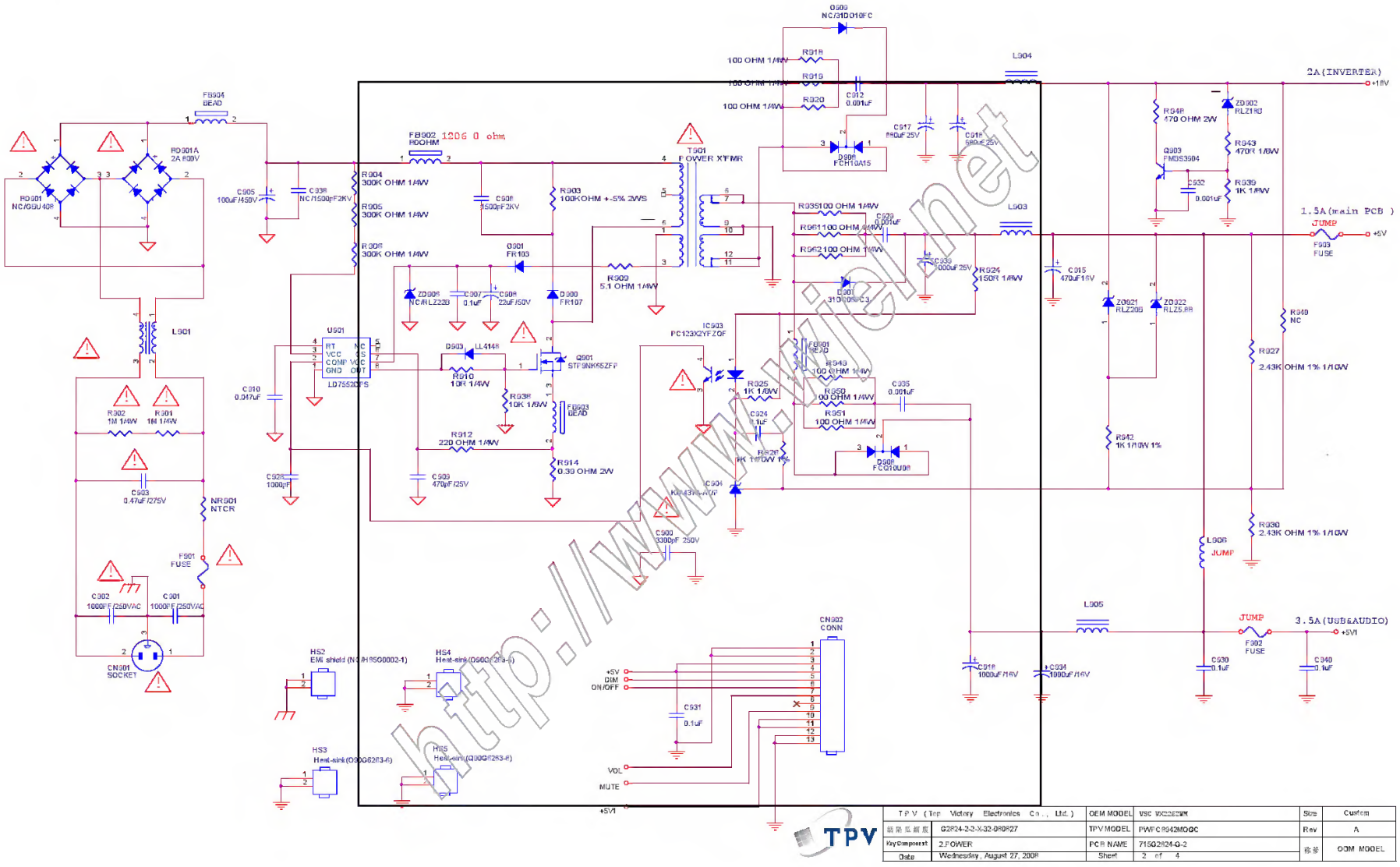
http://www.wjel.net

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	Parkard Bell	Size	A
缓隔瓜缓腹	G3108-1-X-X-8-20080807	TPV MODEL	Acer	Rev	1
Key Component	3.0 OUTPUT	PCB NAME		称掌	<称掌>
Date	Thursday, August 07, 2008	Sheet	3 of 5		

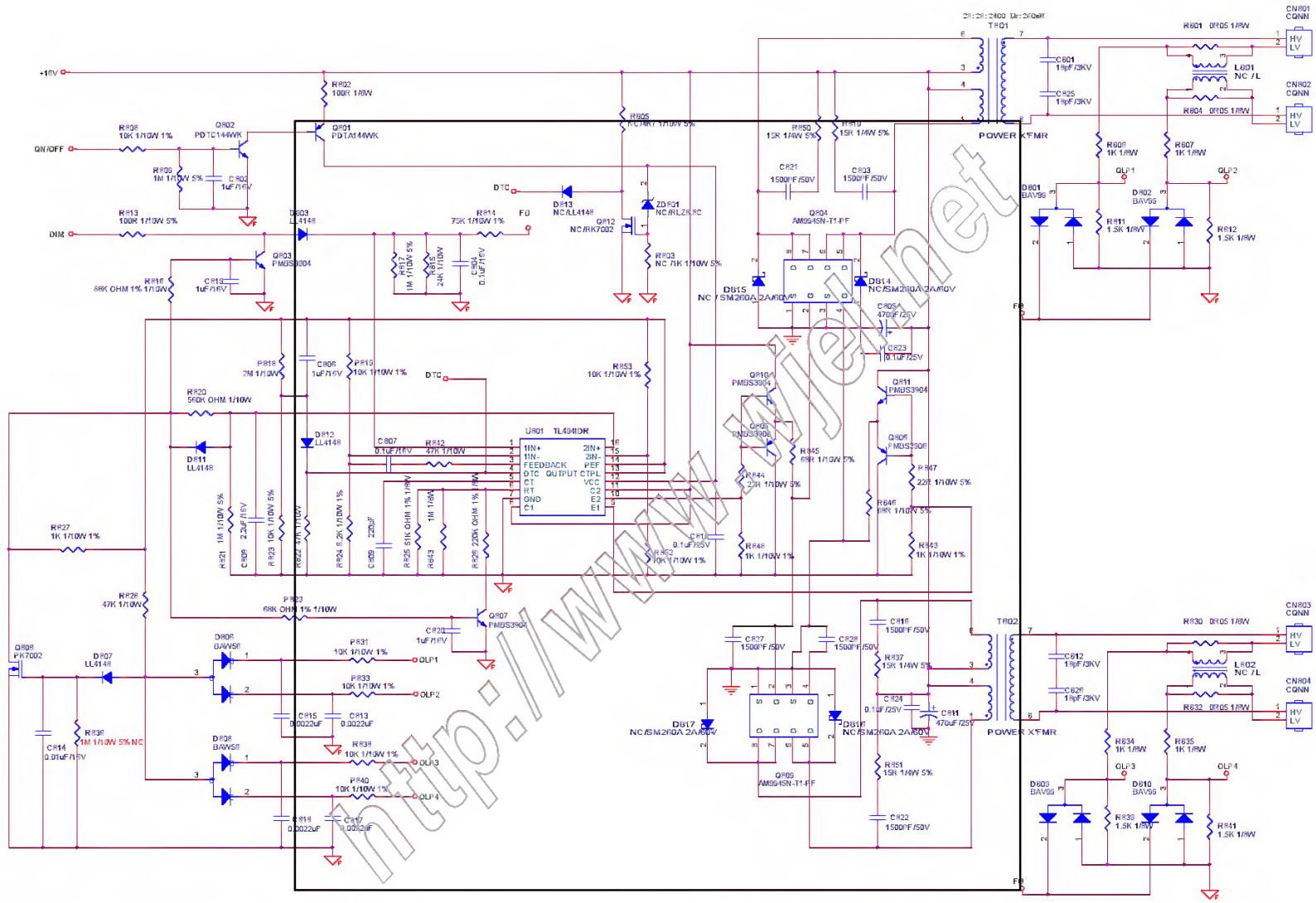


http://www.wjel.net

Power board



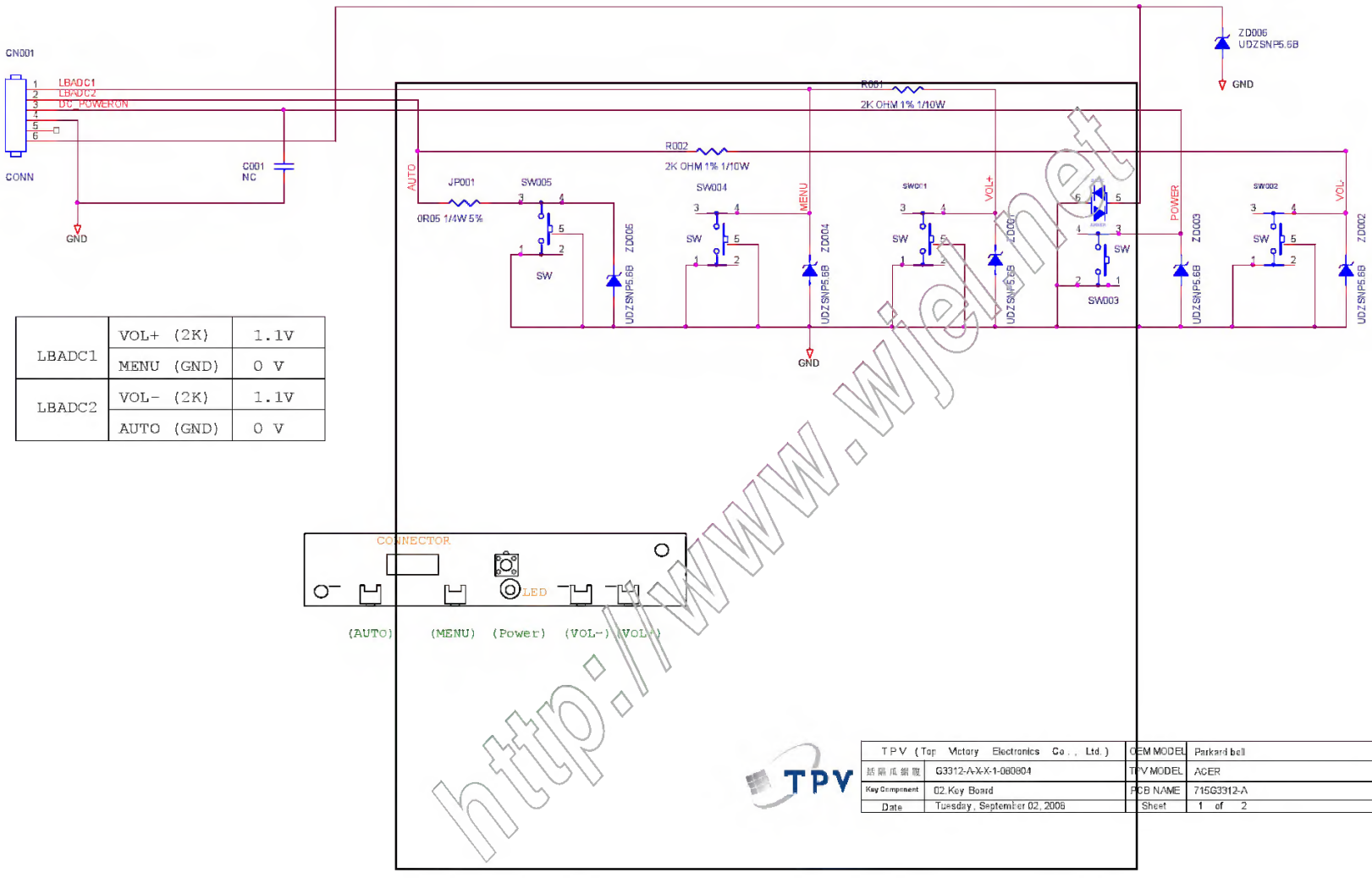
http://www.vinet.net



http://www.wiejnet

TPV (Top Victory Electronics Co., Ltd.)		QEM MODEL	PBC 7XG2823M	Size	Custom
部門代號	G2824-2-2-X-32-080827	TPV MODEL	PWPC8942MGQC	Rev	A
50V Component	03.INVERTER	PCB NAME	715G2824-1-2	版本	ODM MODEL
Date	Wednesday, August 27, 2008	Sheet	3 of 4		

Key board



LBADC1	VOL+ (2K)	1.1V
	MENU (GND)	0 V
LBADC2	VOL- (2K)	1.1V
	AUTO (GND)	0 V

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	Parkard bell	Size	B
版權所有 翻印必究	G3312-A-X-X-1-080804	TPV MODEL	ACER	Rev	A
Key Component	02.Key Board	PCB NAME	715G3312-A	修改	<修改>
Date	Tuesday, September 02, 2008	Sheet	1 of 2		

http://www.wjelnet